

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P526943

Luminaire Tested: **GALN-SA1D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

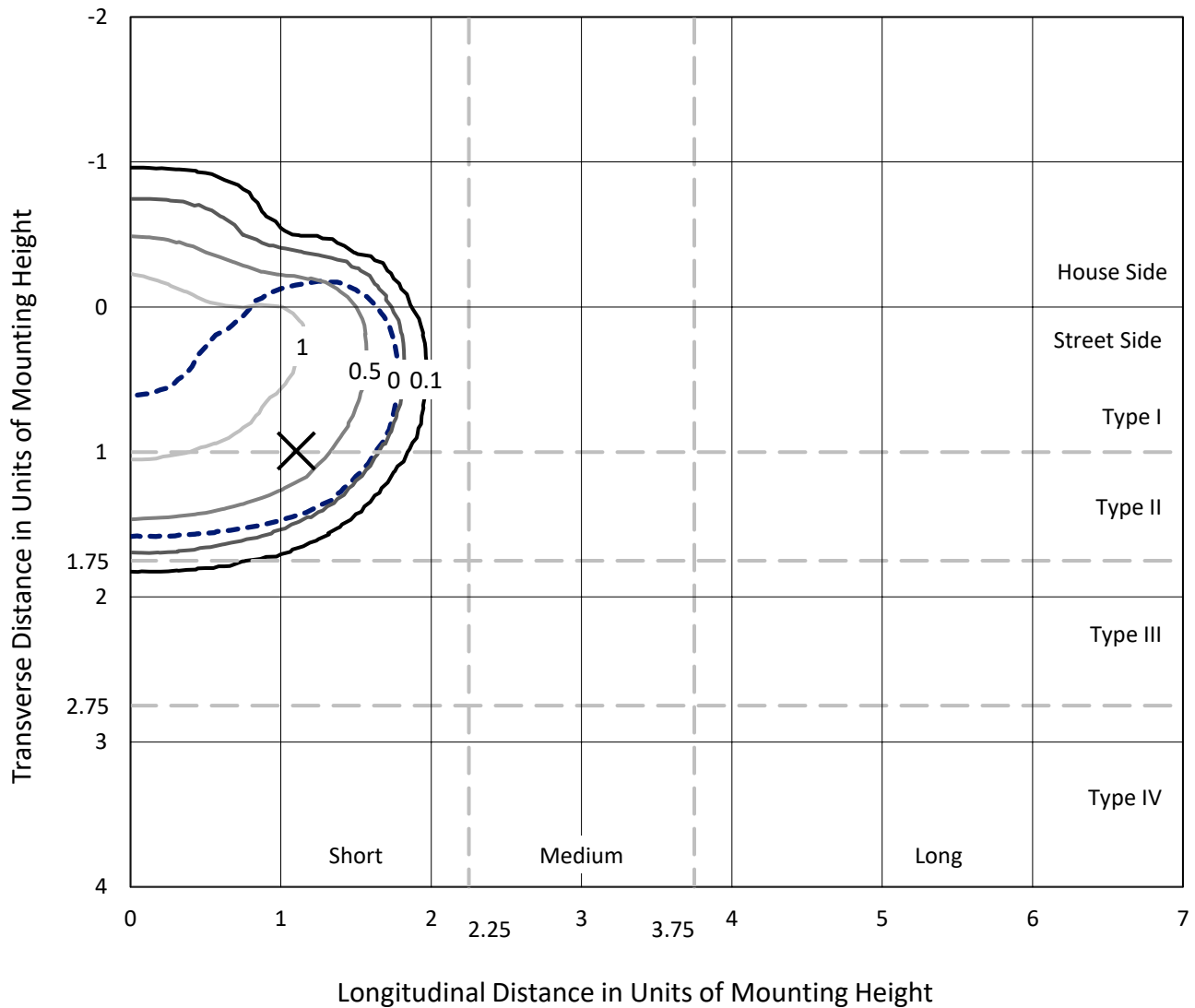
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

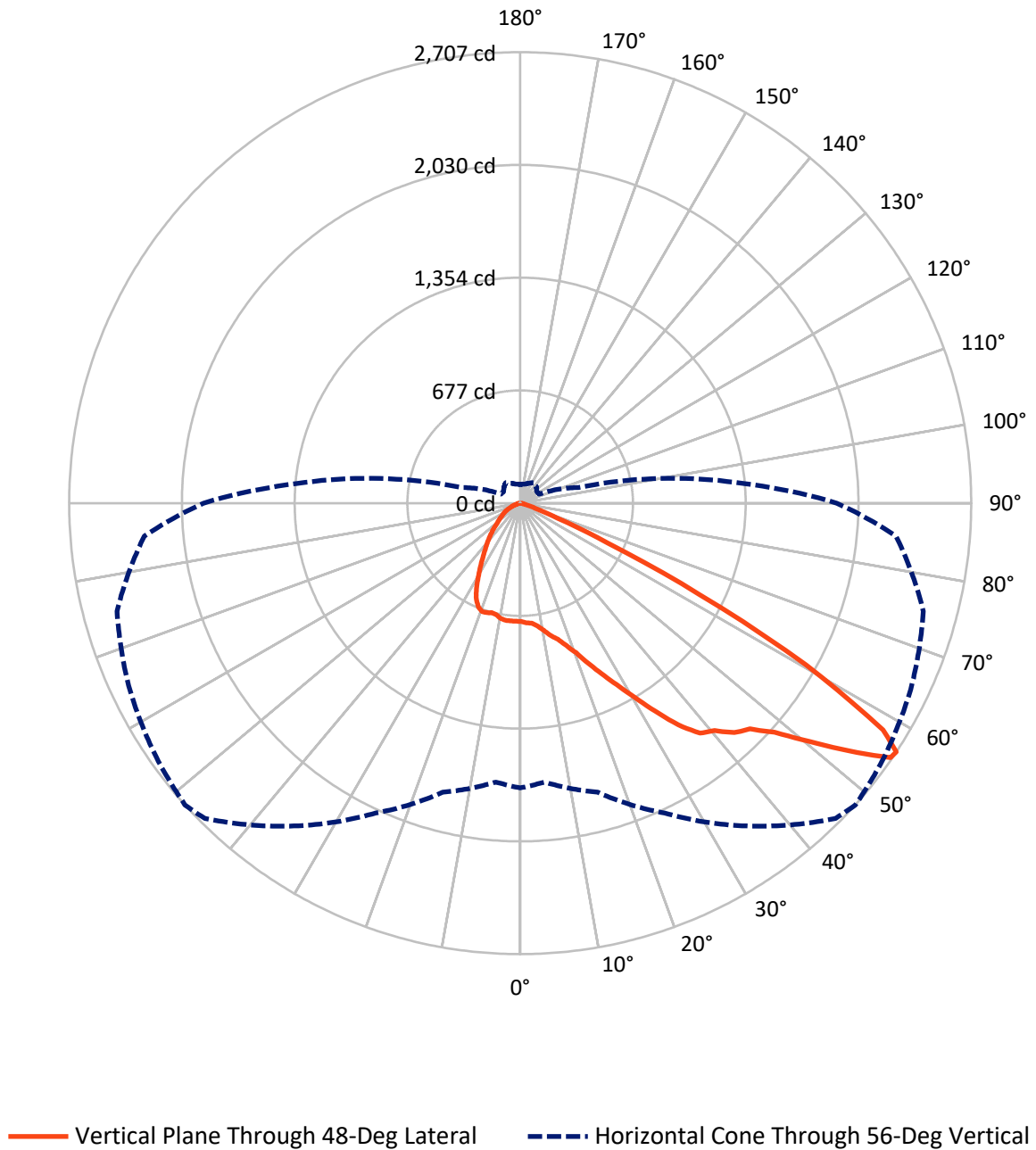
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.7	0.0	807.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2906.3	0.0	2906.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	3714.0	0.0	3714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.9
10°-20°	220.8	5.9
20°-30°	400.5	10.8
30°-40°	629.2	16.9
40°-50°	917.9	24.7
50°-60°	1105.8	29.8
60°-70°	323.8	8.7
70°-80°	41.1	1.1
80°-90°	5.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3714.0	100.0
0°-180°	3714.0	100.0

Coefficient of Utilization



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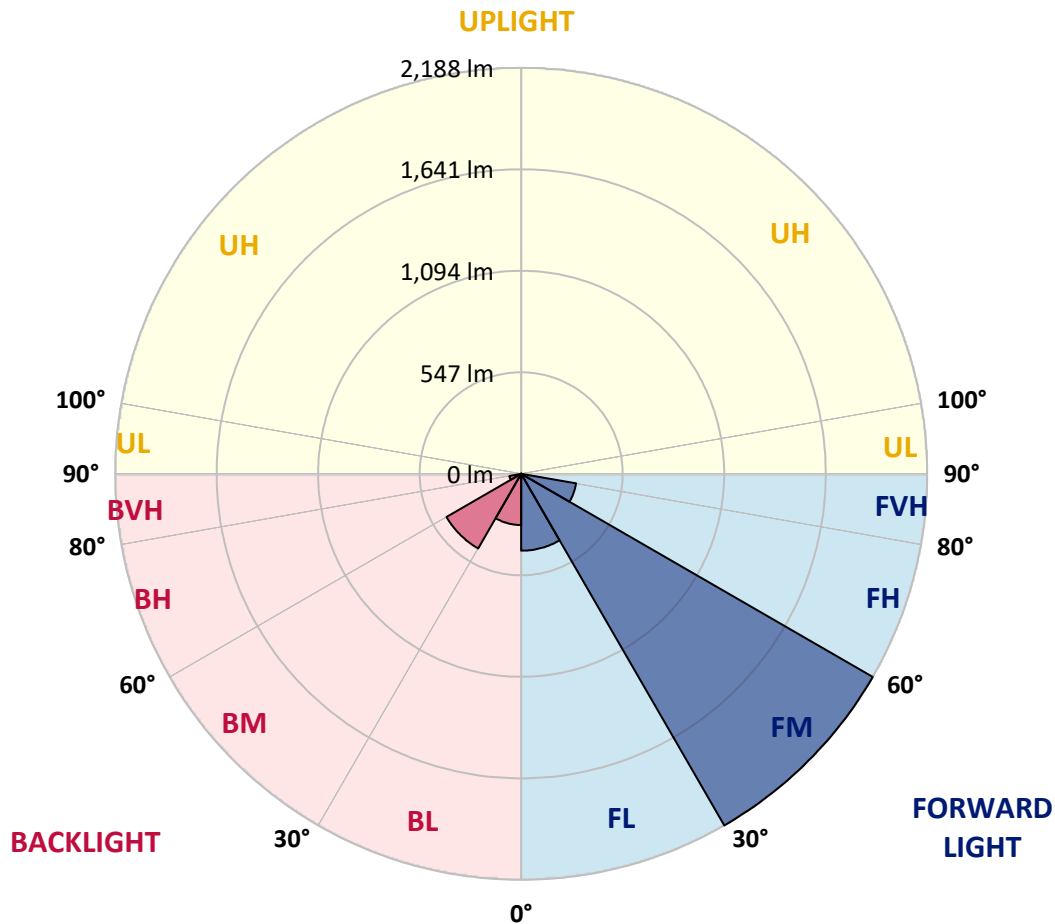
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.4	11.2			
FM	(30°-60°)	2188.3	58.9			
FH	(60°-80°)	300.7	8.1			G0/660
FVH	(80°-90°)	2.9	0.1			G0/10
BL	(0°-30°)	276.1	7.4	B1/500		
BM	(30°-60°)	464.6	12.5	B1/1000		
BH	(60°-80°)	64.2	1.7	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	722.2	718.8	718.8	713.4	719.5	716.8	718.8	712.1	718.8	708.7	716.8
5°	725.6	726.3	723.6	727.0	727.0	731.0	724.3	730.3	733.7	726.3	722.9
7.5°	743.2	744.5	743.9	741.2	746.6	745.9	745.2	740.5	741.8	739.1	735.1
10°	777.7	777.0	780.4	773.6	769.6	774.3	775.6	768.2	762.8	760.8	747.9
12.5°	827.7	819.6	814.9	808.1	810.1	803.4	815.5	802.7	800.0	787.8	775.0
15°	868.3	866.9	867.6	856.8	844.6	847.3	847.3	840.6	836.5	821.6	803.4
17.5°	951.5	923.1	929.2	915.6	905.5	904.8	898.7	900.1	889.3	858.1	830.4
20°	1016.4	1004.2	994.7	971.8	956.2	960.9	958.2	951.5	948.1	907.5	868.3
22.5°	1074.5	1078.6	1063.0	1057.0	1035.3	1037.4	1042.8	1036.7	1011.0	969.1	910.9
25°	1156.4	1151.6	1130.7	1123.2	1102.9	1110.4	1131.3	1126.6	1110.4	1034.6	944.0
27.5°	1253.1	1236.8	1240.9	1207.1	1187.5	1208.4	1233.5	1257.1	1211.1	1111.7	983.3
30°	1321.4	1304.5	1303.1	1301.8	1297.0	1321.4	1350.5	1372.1	1334.9	1188.8	1048.2
32.5°	1355.2	1359.2	1370.7	1366.7	1407.9	1458.0	1488.4	1519.5	1472.9	1314.6	1134.1
35°	1445.1	1419.4	1445.1	1447.8	1490.4	1596.6	1635.1	1709.5	1698.0	1492.5	1238.9
37.5°	1497.9	1495.8	1499.2	1524.9	1566.2	1697.4	1752.1	1809.6	1788.0	1599.3	1369.4
40°	1585.1	1590.5	1589.8	1609.5	1654.8	1773.1	1795.4	1842.1	1844.1	1747.4	1561.4
42.5°	1725.1	1703.4	1689.2	1709.5	1773.1	1838.7	1883.3	1873.9	1940.8	1927.3	1808.3
45°	1850.9	1863.7	1842.8	1876.6	1899.6	1934.7	1933.4	1953.7	2038.9	2103.1	1994.2
47.5°	1968.5	1976.6	1986.8	2009.8	2059.8	2065.2	2053.7	2044.9	2162.6	2228.9	2138.3
50°	2038.9	2046.3	2093.6	2134.9	2228.2	2240.4	2247.1	2224.8	2304.6	2312.1	2274.2
52.5°	2019.9	2028.0	2094.3	2230.2	2379.0	2490.6	2470.3	2432.4	2427.7	2456.8	2400.0
55°	1852.2	1844.8	1936.1	2147.7	2426.3	2694.1	2696.8	2656.9	2580.5	2560.9	2381.0
56°	1709.5	1680.5	1796.8	2052.4	2365.5	2676.6	2707.0	2664.4	2592.7	2504.8	2264.1
57.5°	1400.5	1428.2	1543.9	1755.5	2155.2	2550.1	2567.7	2557.5	2503.4	2356.0	1992.2
60°	772.3	821.0	923.1	1182.1	1534.4	1957.0	1971.2	2053.7	2063.9	1804.2	1370.7
62.5°	328.0	322.6	428.7	619.4	873.7	1181.4	1207.8	1292.3	1307.8	1040.1	687.7
65°	133.2	140.7	194.1	311.7	461.9	538.3	575.5	603.2	654.6	429.4	253.6
67.5°	87.9	87.2	114.3	177.9	248.9	240.1	240.1	253.6	234.7	175.1	109.6
70°	62.9	64.9	81.8	123.1	154.9	115.0	110.2	105.5	119.7	115.6	88.6
72.5°	41.3	44.0	54.8	73.7	80.5	62.9	62.9	75.7	98.7	93.3	72.4
75°	27.0	27.7	33.8	42.6	39.9	32.5	35.8	50.7	71.7	69.0	51.4
77.5°	18.3	18.9	23.0	27.7	22.3	18.3	19.6	25.7	35.2	35.2	27.0
80°	6.8	7.4	9.5	8.8	10.1	12.8	14.2	17.6	21.0	21.0	18.3
82.5°	0.0	0.7	2.0	4.7	7.4	10.1	11.5	13.5	15.6	17.6	16.9
85°	0.0	0.7	2.0	3.4	5.4	6.1	6.8	4.7	4.1	4.1	3.4
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	709.4	708.7	708.7	706.7	710.7	708.7	710.1	709.4	700.6	707.3	702.6
5°	716.8	721.5	714.1	712.8	707.3	709.4	709.4	702.6	708.7	708.0	706.7
7.5°	735.7	727.6	719.5	711.4	710.1	708.0	700.6	697.9	702.6	697.2	705.3
10°	743.9	745.2	733.0	722.2	712.1	697.9	687.7	681.6	674.2	682.3	687.1
12.5°	781.1	767.5	746.6	729.7	695.2	681.0	670.8	668.1	681.0	683.7	678.9
15°	793.9	791.9	764.8	727.0	691.1	674.2	676.2	670.8	672.2	665.4	666.8
17.5°	820.3	797.3	765.5	718.2	690.4	686.4	674.2	652.6	640.4	635.0	639.7
20°	849.4	827.0	781.1	721.5	696.5	685.7	645.8	619.4	594.4	580.9	581.6
22.5°	875.1	847.3	774.3	722.9	701.9	657.3	609.3	557.2	526.1	505.2	505.8
25°	906.2	866.9	777.0	725.6	687.7	612.0	543.0	492.3	455.1	440.9	445.6
27.5°	923.7	879.1	791.9	731.7	650.5	547.8	473.4	426.0	404.4	397.6	397.0
30°	976.5	906.2	810.1	719.5	588.3	478.8	409.8	380.7	359.8	353.7	355.0
32.5°	1054.9	955.5	833.8	687.7	524.8	417.2	368.6	346.9	327.3	315.8	314.5
35°	1120.5	1040.1	858.8	638.4	451.1	369.9	339.5	312.4	282.7	269.8	266.4
37.5°	1245.6	1135.4	853.4	564.0	380.7	334.7	308.4	275.2	249.5	232.0	229.9
40°	1412.0	1247.0	827.0	473.4	328.7	303.6	275.2	243.4	211.7	196.8	195.4
42.5°	1614.2	1383.6	779.0	381.4	276.6	272.5	246.8	210.3	181.9	171.1	171.8
45°	1778.5	1500.6	730.3	306.3	238.0	242.1	219.8	185.3	165.7	156.9	156.9
47.5°	1924.6	1579.7	677.6	252.9	202.2	211.7	192.1	171.8	154.9	148.1	146.7
50°	2065.2	1660.2	624.8	204.9	172.4	181.9	179.9	163.7	150.1	142.0	142.7
52.5°	2153.1	1673.0	557.9	167.7	150.8	161.6	168.4	153.5	138.6	133.9	132.5
55°	2045.6	1507.3	432.8	138.0	127.8	142.0	154.9	138.0	126.5	118.3	117.7
56°	1900.9	1347.7	361.8	127.1	121.0	136.6	150.1	131.9	119.0	114.3	110.9
57.5°	1609.5	1102.9	267.1	112.9	112.3	127.1	142.7	125.8	110.9	106.8	106.8
60°	1003.5	620.8	161.6	94.7	97.4	112.9	128.5	112.3	98.7	98.7	100.8
62.5°	457.1	258.3	98.1	80.5	83.9	97.4	114.3	101.4	94.0	101.4	102.8
65°	155.5	111.6	71.0	64.2	66.3	80.5	98.1	102.8	102.1	106.8	109.6
67.5°	87.2	71.7	59.5	53.4	52.1	59.5	80.5	102.8	98.7	96.7	98.1
70°	73.7	60.9	52.7	47.3	45.3	48.0	62.2	77.8	69.7	67.6	66.3
72.5°	59.5	50.7	46.0	42.6	36.5	31.1	28.4	29.8	33.1	35.2	38.5
75°	41.9	38.5	38.5	34.5	26.4	19.6	15.6	12.8	8.8	6.1	6.8
77.5°	23.7	23.7	24.3	21.0	16.9	12.8	9.5	6.8	3.4	1.4	0.7
80°	16.2	17.6	18.9	16.9	14.2	11.5	8.1	4.7	2.0	0.0	0.0
82.5°	16.2	18.3	19.6	16.9	14.2	10.8	8.1	4.7	2.0	0.7	0.0
85°	3.4	4.1	4.7	5.4	8.1	8.1	6.1	4.1	2.0	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)